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Heparin binding pe Peptide Bis-Arg He Transduction prote Synthetic transduc

Amino acid sequenc Human immunodefici

Cell penetrating peptide transport
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Database :

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Human membrane-bou

Homo sapiens don-1

Homo sapiens don-1 Human third splice

Rat cerebellum der

Receptor type tyro HIV-Tat secretion HIV-1 tat peptide

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New peptide compounds - are useful as heparin binding molecules which do not cause haemodynamic side effects
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Heparin binding peptide.
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Heptide Bis-Arg He
Peptide Bis-Arg He
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                                                                            August 9, 2003, 16:11:13; Search time 53.7429 Seconds (Without alignments) 56.115 Million cell updates/sec
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Copyright (c) 1993 - 2003 Compugen Ltd.
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    protein search, using sw model

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AAW41506
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Gapop 60.0 , Gapext 60.0
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                                                                                                                                                                                                                                                                                                                                                                                             Heparin binding peptide; antagonist; cardiovascular; coagulant; bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention describes novel heparin binding molecules (I) The molecules (I) are useful as heparin antagonist drugs for cardiovascular application and specifically neutralize heparin's conventional anticoagulant properties. (I) are also useful for counteracting actions of heparin locally e.g. in bleeding wounds, vascular anastomoses or leaking prosthetic vascular grafts. (I) is also useful combined in a pharmaceutical composition with insulin, as a substitute for protamine for use in treating diabetics. The heparin binding molecules (I) specifically neutralize heparin's conventional anticoagulant properties without causing deleterious hemodynamic side-effects or exacerbation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the proliferative vascular response to injury. (I) are short-duration, intravenous drugs to be used in elective or emergency situations which can safely and specifically neutralize heparin's proliferative response to injury. This sequence represents a heparin-binding peptide described in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New heparin binding molecules, useful for reducing heparin content in a mammal by reducing the anticoagulant effects of heparin
                                                                                                                                                                                        Gaps
                                                                                    anticoagulant properties, without causing deleterious haemodynamic side-effects or exacerbating the proliferative vascular response to
                     The present heparin binding peptide can be used to antagonise or neutralise the anticoagulant activity of heparin. It can also be used to replace protamine in insulin formulations for administration to diabetics.

The peptide can safely and specifically neutralise heparin's
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                                                                                                                                                             Length 19;
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100.0%; Pred. No. 4.6e-10;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                       Heparin binding peptide Arg helix #2.
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Claim 1; Page 43; 62pp; English.
                                                                                                                                                                                                          1 AEARARRAARRAARA 19
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protamine substitute; treatment
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This invention describes a novel use of antibacterial and.

Immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2, Tetra-Arg Helix 2 or Tris-Arg Helix 3 or Tris-Arg Helix 6 and the detection and removal of amedicament for the treatment of sepsis and the detection and removal of endotoxins.

The peptides of the invention are used in a method for detecting endotoxin in a sample comparisor or according with a labelled helix peptide and then detecting the presence of any labelled molecule country peptide and then detecting the presence of any labelled molecule bound to endotoxin. The peptides can also be used in a method for removing endotoxin in a sample which comprises exposing the sample. The helix peptide, bound to a solid support, then collecting the sample. The affinity trap for endotoxins in e.g. dialysis-type treatments, or for removal of endotoxins from plasma fractionation products. They are also used as model frameworks for endotoxin binding from which new analogues may be designed. This sequence represents the peptide Arg Helix #2 which is used in the method of the invention.
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100.0%; Score 19; DB 21;
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11ve 0; Mismatches 0;
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Matches 19; Conservative
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nes 19; Conser
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This invention describes novel heparin binding molecules (I). The molecules (I) are useful as heparin antagonist drugs for cardiovascular application and specifically neutralize heparin's conventional anticoagulant properties. (I) are also useful for counteracting actions of heparin locally e.g. in bleeding wounds, vascular anatomoses or leaking prosthetic vascular grafts. (I) is also useful combined in a pharmaceutical composition with insulin, as a substitute for protamine for use in treating diabetics. The heparin binding molecules (I) specifically neutralize heparin's conventional anticoagulant properties without causing deleterious hemodynamic side-effects or exacerbation of the proliferative vascular response to injury. (I) are short-duration, intravenous arugs to be used in elective or emergency situations which can asfely and specifically neutralize heparin's proliferative response to injury. This sequence represents a heparin-binding peptide described
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Matches 17; Conservative
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The peptide can safely and specifically neutralise heparin's anticoagulant properties, without causing deleterious heemodynamic side-effects or exacerbating the proliferative vascular response to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New peptide compounds - are useful as heparin binding molecules which do not cause haemodynamic side effects
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Pred. No. 2.5e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY87839 standard; peptide; 21 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5; Page 31; 62pp; English.
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100.0%; Pr/
0;
AAW41506 standard; peptide; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AEARARRAARRARA 17
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                                                                                                                                                                                                                         05-JUN-1998 (first entry)
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Best Local Similarity 100.
Marches 17; Conservative
                                                                                                                                                                                                                                                               Heparin binding peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sobel M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1998-052023/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Harris RB,
                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
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RESULT 5

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Gaps

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AAB71426 standard; peptide; 16
                                                          the method of the invention
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                                                                                                                                                      1 AEARARRAARRA 16
                                                                                                                                                                            1 AEARARRAARRA 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-FEB-2002; 2002EP-0251027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-FEB-2001; 2001US-268410P
                                                                                                        Query Match
Best Local Similarity 100.
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                       /note-
                                                                                                                                                                                                                                                                                                          Peptide Arg Helix #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wolz RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-659478/71.
                                                                                    16 AA;
                                                                                                                                                                                                                                                                                                                                                                                         Key
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                          Modified-site
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                                                                                                                                                                                                                                                                                   27-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Harris RB,
                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                          AAB71426;
                                                                                     Sequence
                                                                                                                                                                                                              RESULT 8
AAB71426
   888888888
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Heparin binding peptide; antagonist; cardiovascular; coagulant;
bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention describes novel heparin binding molecules (I). The molecules (I) are useful as heparin antagonist drugs for cardiovascular application and specifically neutralize heparin's conventional anticoagulant properties. (I) are also useful for counteracting actions of heparin locally e.g. in bleeding wounds, vascular anastomoses or leaking prosthetic vascular grafts. (I) is also useful combined in a pharmaceutical composition with insulin, as a substitute for protamine for use in treating diabetics. The heparin binding molecules (I) specifically neutralize heparin's conventional anticoagulant properties
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New heparin binding molecules, useful for reducing heparin content in mammal by reducing the anticoagulant effects of heparin -
                                                                                                                                                                                                                                                            Gaps
                                                                                                   The present heparin binding peptide can be used to antagonise or neutralise the anticoagulant activity of heparin. It can also be used to replace protamine in insulin formulations for administration to diabetics.

The peptide can safely and specifically neutralise heparin's anticoagulant properties, without causing deleterious haemodynamic side-effects or exacerbating the proliferative vascular response to
                                             New peptide compounds - are useful as heparin binding molecules which do not cause haemodynamic side effects
                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                  84.2%; Score 16; DB 19; Length 16; 100.0%; Pred. No. 1.5e-07; 1.ve 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                 Heparin binding peptide Arg helix #3.
                                                                                                                                                                                                                                                                                                                                                             AAY87837 standard; peptide; 16 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 9; 39pp; English,
                                                                               Claim 4; Page 43; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bleeding wound; vascular anastom
protamine substitute; treatment.
                                                                                                                                                                                                                                                                               1 AEARARRAAARRA 16
                                                                                                                                                                                                                                                                                           1 AEARARRAARRAARRA 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0166930.
                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                         Conservative
  Sobel M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-306006/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Harris RB, Sobel M;
                       WPI; 1998-052023/05
                                                                                                                                                                                                                                             Local Similarity
Les 16; Conserv
                                                                                                                                                                                                            16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                           01-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-0CT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-MAY-2000
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  Harris RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                            Seguence
                                                                                                                                                                                                                                                                                                                                                                                   AAY87837;
                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                      injury
                                                                                                                                                                                                                                                         Matches
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without causing deleterious hemodynamic side-effects or exacerbation of the proliferative vascular response to injury. (I) are short-duration, intravenous drugs to be used in elective or emergency situations which can safely and specifically neutralize heparin's proliferative response to injury. This sequence represents a heparin-binding peptide described
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Ala-C(0). This residue can optionally have
the side chain -C(0)-NepsilonH-(CH2)4-Tris-Arg
helix #3 where Tris-Arg helix #3 is represented
in ABD71431"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Use of cationic helix peptides for treatment of sepsis and for the detection and removal of endotoxins \cdot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sepsis; branched chain peptide; antibacterial; immunosuppressive; endotoxin; helix peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                         Length 16;
                                                                                                                                                                                                                                                                                                                                                                                DB 21; L
                                                                                                                                                                                                                                                                                                                                                                            84.2%; Score 16; DB 100.0%; Pred. No. 1.5 Live 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 4; 18pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER 2,3-Diaminopropionic acid (DAPA), this residue has a -(CH2)3-NepsilonH-ArgHel#3 side chain, where ArgHel#3 is represented in AAB71432"
removal of endotoxins from plasma fractionation products. They are also used as model frameworks for endotoxin binding from which new analogues may be designed. This sequence represents the peptide Arg Helix #3 which is used in the construction of the branched chain peptides described in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                                                                                         "ArgHel#3 peptide fragment joined to the TR3 CONST peptide fragment represented in AAB/1427 via -C(0)-NalphaH- bond"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Lys-(CH2)4-NepsilonH-ArgHel#3, where ArgHel#3 represented in AAB71426"
                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                              Sepsis; branched chain peptide; antibacterial; immunosuppressive; endotoxin; helix peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Glu-(CH2)4-O-C(O). This residue also has -C(O)-NH2 side chain"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Use of cationic helix peptides for treatment of sepsis and for detection and removal of endotoxins \cdot
                                                                                                 Length 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention describes a novel use of antibacterial and
                                                                                                                        0; Indels
                                                                                              84.2%; Score 16; DB 23; I
100.0%; Pred. No. 1.5e-07;
1ve 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Lys-(CH2)4-Neps1lonH3+"
                                                                                                                                                                                                                                                                                                                                                                                                                   "Acylated residue"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                       Peptide Tris-Arg Helix #3 constrained
                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualiflers
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                                                                                                                                                                                                                               AAB71431 standard; peptide; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wolz G;
                                                                                                                                              1 AEARARRAARRA 16
                                                                                                                                                           14-FEB-2001; 2001US-268410P.
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                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /label-
                                                                                                                                                                                                                                                                                                                                                                                                                   /note=
16..17
/note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
/note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'note-
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                                                                                            Query Match
Best Local Similarity
Matches 16; Conservi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-659478/71.
                                                                        16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                      Modified-site
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                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                        Sequence
                                                                                                                                                                                                                                                       AAB71431;
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immunosuppressive peptides designated Arg Helix 2, Bis Arg Helix 2, Tetra-Arg Helix 2 or Tris-Arg Helix 3 for the manufacture of a medicament for the treatment of sepsis and the detection and removal of endotoxins. The peptides of the invention are used in a method for detecting endotoxin in a sample comprising contacting the sample with a labelled helix peptide and then detecting the presence of any labelled molecule obund to endotoxin. The peptides can also be used in a method for removing endotoxin in a sample which comprises exposing the sample to a removing endotoxin in a sample which comprises exposing the sample. The endotoxin removal may be in vivo, or the peptides may be used to form an affinity trap for endotoxins in e.g. dialysis-type treatments, or for removal of endotoxins from plasma fractionation products. They are also used as model frameworks for endotoxin binding from which new analogues may be designed. This sequence represents the peptide Tris Arg-Helix #3 constrained which is used in the construction of the branched chain peptides described in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present heparin binding peptide can be used to antagonise or neutralise the anticoagulant activity of heparin. It can also be used to replace protamine in insulin formulations for administration to diabetics.

The peptide can safely and specifically neutralise heparin's anticoagulant properties, without causing deleterious haemodynamic side-effects or exacerbating the proliferative vascular response to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New peptide compounds - are useful as heparin binding molecules which do not cause haemodynamic side effects
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Heparin binding peptide; anticoagulant antagonist; protamine; insulin formulation; diabetes.
                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                     DB 23; I
                                                                                                                                                                                                                                                                                                                                   Score 16; DB 2
Pred. No. 1.86
0; Mismatches
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                                                                                                                                                                                                                                                                                                                       84.2%; Scur
100.0%; Pre
0;
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                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Local 16; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sobel M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1998-052023/05.
                                                                                                                                                                                                                                                                                                   21 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 10
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ID AAW4
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Anti-pathogen; fusion protein; protein transduction domain; PTD; AZT; cytotoxic domain; suppressor; infection; medicament; ddI; ddC; d4T; 3TC; TTC; DAPD; 1592U99; CS92, acyclovir; ganciclovir; peniclovir; Interferon; apoptosis; virus; HVY; cytomegatovirus; CMV; herpes simplex virus; HSV-1; hepatitis virus; Raposi's sarcoma-associated herpes virus; KSHV; herpes virus; KSHV; herpes virus; KSHV;

transduction efficiency; cytotoxin.

Unidentified.

W09929721-A1.

98WO-US26358

.0-DEC-1998; 20-APR-1998; 10-DEC-1997;

17-JUN-1999.

97US-0069012

(UNIW) UNIV WASHINGTON.

WPI; 1999-394958/33.

Dowdy SF;

Infections

Transduction protein peptide motif 3.

(first entry)

24-AUG-1999

AAY25078;

AAY25078 standard; peptide; 11 AA.

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This invention describes novel heparin binding molecules (I). The molecules (I) are useful as heparin antagonist drugs for cardiovascular application and specifically neutralize heparin's conventional anticoagulant properties. (I) are also useful for counteracting actions of heparin locally e.g. in bleeding wounds, vascular ansatomoses or leaking prothetic vascular grafts. (I) is also useful combined in a pharmaceutical composition with insulin, as a substitute for protamine for use in treating diabetics. The heparin binding molecules (I) specifically neutralize heparin's conventional anticoagulant properties without causing deleterious hemodynamic side-effects or exacerbation of the proliferative vascular response to intravenous drugs to be used in elective or emergency situations which can safely and specifically neutralize heparin's proliferative response to injury. This sequence represents a heparin's proliferative response to injury. This sequence represents a heparin's proliferative response to injury. This sequence represents a heparin-binding peptide described in the method of the invention.
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                                                                                                                                                                                                                                                                                                                                                            Heparin binding peptide; antagonist; cardiovascular; coagulant;
bleeding wound; vascular anastomoses; leaking prosthetic vascular graft;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New heparin binding molecules, useful for reducing heparin content in mammal by reducing the anticoagulant effects of heparin -
                                                  Gaps
                                                ö
   63.2%; Score 12; DB 19; Length 16; 100.0%; Pred. No. 0.0004; atlve 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          63.2%; Score 12; DB 21; Length 16; 100.0%; Pred. No. 0.0004; 1ve 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (COMM-) COMMONWEALTH BIOTECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                       Heparin binding peptide Arg helix #4
                                                                                                                                                                                                        AAY87838 standard; peptide; 16 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 9; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                bleeding wound; vascular anastom
protamine substitute; treatment.
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                                                                                                                                                                                                                                                                                        (first entry)
Ouery Match
Best Local Similarity 100.
Matches 12; Conservative
                                                                               5 ARRAAARAARRA 16
                                                                                                                   5 ARRAARAARA 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
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New anti-pathogen systems, particularly for virus and plasmodium

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This invention describes a novel anti-pathogen system (APS) comprising a fusion protein constructed from a covalently linked protein transduction a fusion protein constructed from a covalently linked protein transduction comparison and a cytotoxic domain. The APS can be used for suppressing a pathogen infection in a mammal. The APS can be used for suppressing administering a medicament e.g. AZT, ddi, ddc, d4T, 3TC, FTC, DAPD, CSC, acyclovir, ganciclovir, peniclovir or an interferon. The APS can also be administered to a mammal in the presence of a pathogen to induce apoptosis in a predetermined population of cells. The products can confide a disease associated with a virus, e.g. HTV, cytomegalovirus (CMV), herpes simplex virus, e.g. type I (HSV1) hepatitis virus, type C (HCV), Kaposi's Barcoma-associated with a virus, or susceptible to plasmodial infection or a disease associated with a virus B), yellow fever virus, flavivirus or rhinovirus, or suffering from consuceptible to plasmodial infection or a disease associated with a plasmodial infection efficiency and consuce pathogens. Formation of the cytotoxin is minimized or eliminated in uninfected cells for pathogen strains. This sequence represents a transduction protein motif consuce consuc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 69; Page 37; 123pp; English.
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AAB29419 standard; peptide; 11 AA
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                                           WO200062067-A1
                                                         28-FEB-1999;
29-AUG-1999;
           09-FEB-2001
                                                19-OCT-2000
                                       Synthetic,
       AAB29419;
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AAB29419
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52.6%; 25-SEP-2000 (first entry) Ouery Match
Best Local Similarity 100. Conservative (UNIW) UNIV WASHINGTON 10 ARAARRAARA 19 10 ARAARRAARA 19 Query Match Best Local Similarity ARAARRAARA 11 WPI; 2000-431269/37. 11 AA; WO200034308-A2. 10-DEC-1999; 10-DEC-1998; 15-JUN-2000. Synthetic. AAY93547; Dowdy SF; Sequence RESULT 14 AAY93547 à 셤 à 윱 drug targetting; drug discovery; cell transduction; bioavailability; vaccine; nervous system disorder; Alzheimer's disease; barkinson's disease; Huntington's disease; pre-senile dementia; epilepsy; seizure; compulsive behaviour; meningitis; encephalitis; ischaemia; spongiform encephalopathy; dyslexia; age-related memory loss; Lou Gehring's disease; viral infection; HIV; bacterial infection. The invention relates to a novel fusion molecule comprising at least one protein transduction domain (PTD) and at least one linked molecule, where the linked molecule has therapeutic or prophylactic activity against a medical condition. The invention also relates to methods of drug discovery in which the test compound is linked to a suitable transducing protein and introduced to a cell; a method of killing resistant microorganisms using a suitable fusion molecule; a mammal comprising a covalently linked fusion molecule; and a mammal adapted for experimental use in which at least one transduction molecule has been transduced into essentially all the cells of the mammal. The fusion molecule is used to deliver a therapeutic agent to a mammal, especially a human. The linked molecule may be a vaccine, an anti-infective drug, a cardiovascular drug, an antitumour drug, an analgesic, an antituflammatory, a diagnostic marker or a drug for the treatment or prevention of a central or peripheral nervous system disorder. The central nervous system (CNS) disorder is especially Alzhelmer's disease, Parkinson's disease, Huntington's disease, and also includes pre-senile (including viral and bacterial meningitis), encephalitis, ischaemia, scrapie (or related spongiform encephalopathies), dyslexia, age-related memory loss or Lou Gehring's disease. Fusion molecules can also be used to kill virally infected cells, especially those infected with HIV The vaccines are used to treat or prevent bacterial or viral infections The methods are a highly effective means for transducing a molecule into an entire mammal or into specific cells, tissues, organs and systems within it. They also overcome bloavailability problems that are associated with many therapeutic agents (e.g., large molecular sindycrophobicity, hydrophilicity, biological resistance), by providing efficient transduction of the target cell. The present sequence represents a specifically claimed protein transduction domain. Protein transduction domain; fusion molecule; therapeutic agent; Fusion molecules comprising protein transduction domains and therapeutic agents, useful for treating e.g. Alzheimer's and Parkinson's diseases, dementia and epilepsy -Synthetic transduction peptide, SEQ ID NO:6, Claim 36; Page 147; 191pp; English 99US-0122757, 28-FEB-2000; 2000WO-US05097 (first entry) ដ Sequence

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                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein transduction system; protein transduction domain; cytotoxic domain; pathogen infection; retroviral infection; plasmodial infection; cancer; prostate cancer.
  Length 11;
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Score 10; DB 21;
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AAE05278
ID AAE05:
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Using site-specific DNA recombinase domain/protein transduction domain fusion proteins for inducing target gene alterations in organisms or cell cultures.
                                                                                                                                                    DNA recombinase domain; protein transduction domain; PTD; mutant;
gene alteration; TAT protein; mutein; Human immunodeficiency virus;
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                                                                            Human immunodeficiency virus (HIV) TAT mutant peptide #5.
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                                                                                                                                                                                                                                                                                                    Human immunodeficiency virus
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10-NOV-2000; 2000EP-0124595.
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12-SEP-2001 (first entry)
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